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TI: Crawler type running vehicle e.g. industrial vehicle used in forest has expansion amount control device which manages amount of expansion of oil-hydraulic cylinders individually provided on four corners of mounting body, based on detected inclination angle of mounting body

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PD: 30.09.1997

AB: The vehicle (10) has a crawler type lower vehicles (20) coupled to an upper mounting body (30). Four oil-hydraulic cylinders (11A-11D) are individually provided on four corners of the upper mounting body. Inclination sensors are likewise provided on the four corners of the upper mounting body to detect the inclination angle of the upper mounting body. An expansion amount control device controls the amount of expansion of each oil-hydraulic cylinder based on the detection result of respective inclination sensor.; Runs even on inclined rapid road. Stabilises horizontal position of upper mounting body even if it runs past rocks scattered on road, thus over turning of vehicle is prevented.

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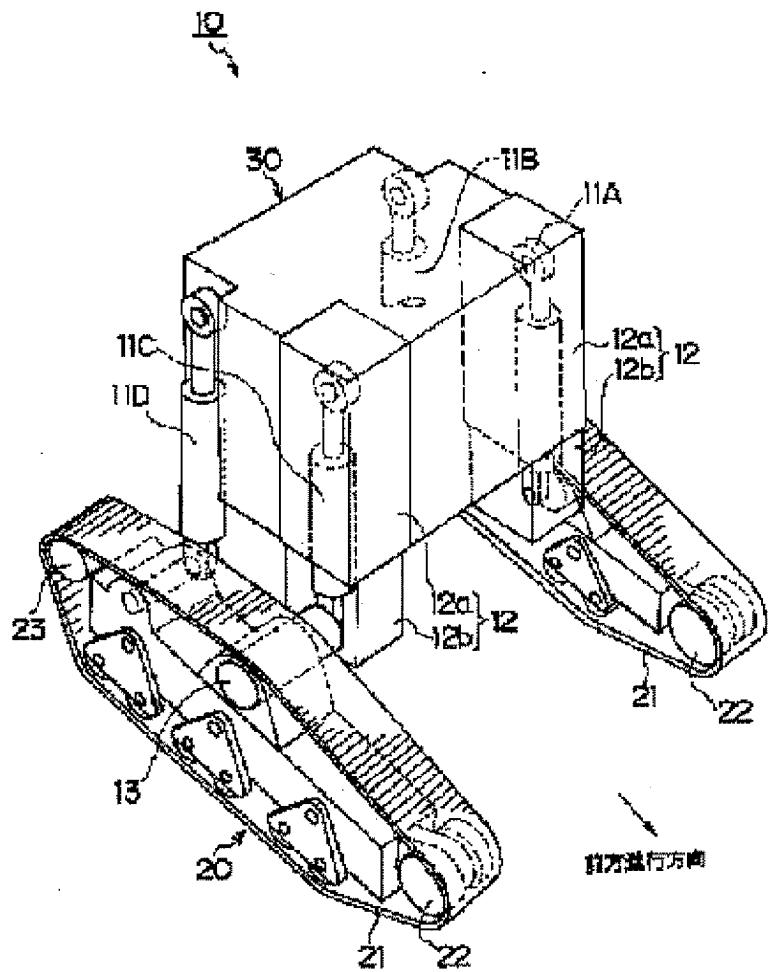
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(54) AIR BLOWER

(57) Abstract:

PURPOSE: To conduct air blowing with an excellent efficiency and with a simple structure at a device in which air blowing is conducted by reciprocating a thin piece that is deformable to a curve or inclinable, by arranging so that part or the whole of the thin piece may be inclined in an air blowing direction at the time of a reciprocating direction movement.

CONSTITUTION: A thin piece 1 is provided in a way it can be reciprocated up and down, and it is arranged that the air blowing direction front end portion and rear end portion of this thin piece 1 are alternately moved up and down. And it is arranged that at the time of reciprocating both direction movements, the movement direction surface of a thin piece 2 is inclined in an air blowing direction, and air is pushed out in the air blowing direction by means of the thin piece 2 air blowing

direction facing surface. And then, air blowing is conducted by operating the thin piece 1 continuously.

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